

- 1.2m and 1.5m Reflector options
- SMC or Carbon fibre antenna
- Exceptional Value
- Compact and Robust
- Up to 400W integrated Tx Power

### Compact

The RM antenna is an ultra-compact roof mount system which encompasses the drive control, positioning hardware and BUC/HPA into the aerodynamic antenna enclosure, making the system a robust standalone sub-assembly ready to install onto almost any vehicle.

### Versatile

The versatile power-payload of the RM antenna series has been designed to take low power SSPAs or high power TWTs in single thread or 1:1 redundant configurations with power levels up to 400W.

### Auto-Acquire

The Satellite Acquisition Controller uses industry standard position transducers and a sophisticated pattern recognition algorithm to confirm and refine its heading information using visible satellites. The controller is mounted on the antenna structure with a separate power supply and control panel in a rack mount unit for mounting within the equipment area.



### Easy of use

The system is simple to install, set up and use. Following relocation of the antenna, the system will reliably and accurately locate and lock on to the designated traffic satellite rapidly within minutes.

### Options :-

- 1:1 Redundancy switching systems
- Vehicle mounting brackets
- De-Ice Kit
- 3 axis Jog-controller
- Auto-Pointing controller
- Inclined orbit tracking controller



## Specification:-

## RM120/SNG

## RM150/SNG

### Mechanical Data

Antenna Width :	123 cm	150 cm
Antenna Height :	127 cm	152 cm
Geometry :	Offset, dual optic	Single offset
Reflector Material :	SMC	Carbon fibre
Weight	100kg	100kg
Feed interface :	WR 75	WR 75
Azimuth range :	+/- 185°	+/- 185°
Elevation range :	10~90°	5~90°
Polarisation range :	+/- 95°	+/- 95°
Operating temperature :	-30°C~+60°C	-30°C~+60°C

### Electrical Data

#### Receive

Polarisation :	linear	linear
Frequency band :	10,7 ~12,75 GHz	10,7 ~12,75 GHz
Gain @ 12,5 GHz :	41,8 dBi	43 dBi
G/T (30° élévation) @ 12.5 GHz :	21 dBK	23dBK

#### Transmit

Polarisation :	linear orthogonal	linear orthogonal
Frequency band :	13,75 ~14,5 GHz	13,75 ~14,5 GHz
Gain @ 14,25 GHz :	43 dBi	44.7dBi

VSWR : 1,3 : 1 max 1,3 : 1 max

Isolation Rx / Tx (13,75~14,5 GHz) : 40 dB min 40 dB min  
 Isolation Tx / Rx (10,75~12,75GHz) : 75 dB min 75 dB min

